

RESPONSE - RESTRICTION REQUIREMENT

Attorney Docket No.: EI-7520

Application No: 10/670,552

Listing of Claims of Elected Invention

What Is Claimed Is:

1. (Original) A fuel composition, comprising:
 - (a) a spark-ignition fuel;
 - (b) a detergent; and
 - (c) deposit inhibitor compound.
2. (Original) The fuel composition of claim 1, wherein the detergent is selected from a Mannich base detergent and a polyetheramine detergent.
3. (Original) The fuel composition of claim 1, wherein the detergent comprises a Mannich base detergent comprising the reaction product of an alkyl-substituted hydroxyaromatic compound, an amine, and an aldehyde.
4. (Original) The fuel composition of claim 1, wherein the detergent comprises a Mannich base detergent comprising the reaction product of alkylated cresol, a primary or secondary alkylamine, and formaldehyde.
5. (Original) The fuel composition of claim 1, wherein the detergent comprises a polyether amine having a molecular weight ranging from 500 to 3000.
6. (Original) The fuel composition of claim 1, wherein the deposit inhibitor compound comprises a succinimide compound.
7. (Original) The fuel composition of claim 6, wherein the succinimide compound comprises a reaction product obtained by reacting an alkenyl succinic anhydride, acid, acid-ester or lower alkyl ester with an amine containing at least one primary amine group.
8. (Original) The fuel composition of claim 1, wherein the deposit inhibitor compound comprises a manganese compound.

RESPONSE – RESTRICTION REQUIREMENT
Attorney Docket No.: EI-7520
Application No: 10/670,552

9. (Original) The fuel composition of claim 8, wherein the manganese compound comprises a fuel-soluble cyclopentadienyl manganese tricarbonyl compound.
10. (Original) The fuel composition of claim 1, wherein the spark-ignition fuel comprises gasoline.
11. (Original) The fuel composition of claim 1, wherein the spark-ignition fuel comprises a blend of hydrocarbons of the gasoline boiling range and a fuel-soluble oxygenated compound.
12. (Original) The fuel composition of claim 1, further comprising a carrier fluid selected from the group consisting of a mineral oil or a blend of mineral oils that have a viscosity index of less than about 120; one or more poly-alpha-olefin oligomers; one or more poly (oxyalkylene) compounds having an average molecular weight in the range of about 500 to about 3000; one or more polyalkenes; one or more polyalkyl-substituted hydroxyaromatic compounds; and mixtures thereof.
13. (Original) The fuel composition of claim 12, wherein the carrier fluid comprises at least one poly (oxyalkylene) compound.
14. (Original) The fuel composition of claim 1, further comprising at least one additive selected from the group consisting of additional dispersants/detergents, antioxidants, carrier fluids, metal deactivators, dyes, markers, corrosion inhibitors, biocides, antistatic additives, drag reducing agents, demulsifiers, dehazers, anti-icing additives, antiknock additives, anti-valve-seat recession additives, lubricity additives and combustion improvers.
15. (Original) The fuel composition of claim 1, wherein the fuel composition further comprises at least one amine detergent.
16. (Original) The fuel composition of claim 15, wherein the amine detergent comprises at least one member selected from the group consisting of hydrocarbyl-substituted succinic anhydride derivatives, Mannich condensation products, hydrocarbyl amines and polyetheramines.

RESPONSE – RESTRICTION REQUIREMENT

Attorney Docket No.: EI-7520

Application No: 10/670,552

17. (Original) The fuel composition of claim 16, wherein the hydrocarbyl-substituted succinic anhydride derivatives comprise at least one member selected from the group consisting of hydrocarbyl succinimides, hydrocarbyl succinimides, hydrocarbyl succinimide-amides and hydrocarbyl succinimide-esters.

18. (Original) A method of minimizing or reducing injector deposits in a spark-ignition internal combustion engine, said method comprises providing as fuel for the operation of said engine a fuel composition in accordance with claim 1.

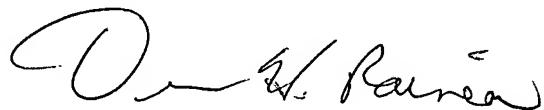
19. (Original) A method for operating an electronic port fuel injected engine on an unleaded fuel composition which comprises introducing into an electronic port fuel injected engine with the combustion intake charge the fuel composition of claim 1.

20. (Original) A method for operating a direct injection gasoline engine on an unleaded fuel composition which comprises introducing into a direct injection gasoline engine with the combustion intake charge the fuel composition of claim 1.

FEES

As this Response is submitted within the shortened statutory period, it is believed that no fees are due. However, in the event the calculations are incorrect, the Commissioner is hereby authorized to charge any deficiencies in fees or credit any overpayment associated with this communication to Deposit Account No. 05-1372. In the event the calculation regarding timely filing is incorrect, an appropriate extension of time to respond is also most respectfully requested.

Respectfully submitted,



Dennis H. Rainear, Reg. No. 32,486

330 South Fourth Street
Richmond, VA 23219
Phone: 804-788-5516; FAX: 804-788-5519
E-Mail: Dennis.Rainear@NewMarket.com
Date: March 21, 2006